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L1	589	((G-SQL or SQL) with (graph\$3 or chart\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:08
L2	506	1 and (@ad<"20040924" or @rlad<"20040924")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:09
L3	589	(G-SQL or ("SQL" with (graph\$3 or chart\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:10
L4	506	3 and (@ad<"20040924" or @rlad<"20040924")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:09
L5	136	4 and 707/3,4,5.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:17
L6	209	(G-SQL or ("SQL" with (graph\$3 or chart\$3) with (image or presentation\$1 or bar\$1 or chart\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:11
L7	706	(G-SQL or ("SQL" with (((report or summary) near2 generat\$4) or ((graph\$3 or chart\$3) with image or presentation\$1 or bar\$1 or chart\$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:13

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L8	0	"G-SQL"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:13
L9	4	(graph\$3 with ("SQL" or "structure query language")) same (((pie or vertical or horizontal) near3 chart) or ((scatter or contour) nea2 plot) or (wafer near2 map))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:16
L10	12	("SQL" or "structure query language") with (((pie or vertical or horizontal) near3 chart) or ((scatter or contour) nea2 plot) or (wafer near2 map))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:17
L11	3	10 and 707/3,4,5.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/25 17:17


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21 [Industrial session: query processing and optimization: An efficient SQL-based RDF querying scheme](#)

Eugene Inseok Chong, Souripriya Das, George Eadon, Jagannathan Srinivasan

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05****Publisher:** VLDB Endowment

Full text available: pdf(178.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Devising a scheme for efficient and scalable querying of Resource Description Framework (RDF) data has been an active area of current research. However, most approaches define new languages for querying RDF data, which has the following shortcomings: 1) They are difficult to integrate with SQL queries used in database applications, and 2) They incur inefficiency as data has to be transformed from SQL to the corresponding language data format. This paper proposes a SQL based scheme that avoids th ...

22 [Modeling and assessing inference exposure in encrypted databases](#)



Alberto Ceselli, Ernesto Damiani, Sabrina De Capitani Di Vimercati, Sushil Jajodia, Stefano Paraboschi, Pierangela Samarati

February 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 1**Publisher:** ACM Press

Full text available: pdf(727.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The scope and character of today's computing environments are progressively shifting from traditional, one-on-one client-server interaction to the new cooperative paradigm. It then becomes of primary importance to provide means of protecting the secrecy of the information, while guaranteeing its availability to legitimate clients. Operating online querying services securely on open networks is very difficult; therefore many enterprises outsource their data center operations to external applicati ...

Keywords: Cryptography, database service, indexing, inference

23 [Graph mining: Laws, generators, and algorithms](#)



Deepayan Chakrabarti, Christos Faloutsos

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1**Publisher:** ACM Press

Full text available:  pdf(910.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

How does the Web look? How could we tell an abnormal social network from a normal one? These and similar questions are important in many fields where the data can intuitively be cast as a graph; examples range from computer networks to sociology to biology and many more. Indeed, any $M : N$ relation in database terminology can be represented as a graph. A lot of these questions boil down to the following: "How can we generate synthetic but realistic graphs?" To answer thi ...

Keywords: Generators, graphs, patterns, social networks

24 Invited tutorial 2: Processing queries on tree-structured data efficiently



Christoph Koch

June 2006 **Proceedings of the twenty-fifth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '06**

Publisher: ACM Press

Full text available:  pdf(306.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This is a survey of algorithms, complexity results, and general solution techniques for efficiently processing queries on tree-structured data. I focus on query languages that compute nodes or tuples of nodes—conjunctive queries, first-order queries, datalog, and XPath. I also point out a number of connections among previous results that have not been observed before.

Keywords: XML, complexity, efficient algorithms, query processing, survey, tree-structured data

25 Authentication & trust management: Trust management services in relational databases



Sabrina De Capitani di Vimercati, Sushil Jajodia, Stefano Paraboschi, Pierangela Samarati

March 2007 **Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07**

Publisher: ACM Press

Full text available:  pdf(284.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Trust management represents today a promising approach for supporting access control in open environments. While several approaches have been proposed for trust management and significant steps have been made in this direction, a major obstacle that still exists in the realization of the benefits of this paradigm is represented by the lack of adequate support in the DBMS. In this paper, we present a design that can be used to implement trust management within current relational DBMSs. We propo ...

Keywords: access control, credentials, relational DBMS, trust

26 Relevancy-based access control and its evaluation on versioned XML documents



Mizuho Iwaihara, Ryotaro Hayashi, Somchai Chatvichienchai, Chutiporn Anutariya, Vilas Wuwongse

February 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Integration of version and access control of XML documents has the benefit of regulating access to rapidly growing archives of XML documents. Versioned XML documents provide us with valuable information on dependencies between document nodes, but, at the same

time, presenting the risk of undesirable data disclosure. In this article, we introduce the notion of relevancy-based access control, which realizes protection of versioned XML documents by various types of relevancy, such as version dep ...

Keywords: Access control, XML, XPath, query language, security, version control



27 Applying associative retrieval techniques to alleviate the sparsity problem in collaborative filtering



Zan Huang, Hsinchun Chen, Daniel Zeng

January 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available:  pdf(173.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recommender systems are being widely applied in many application settings to suggest products, services, and information items to potential consumers. Collaborative filtering, the most successful recommendation approach, makes recommendations based on past transactions and feedback from consumers sharing similar interests. A major problem limiting the usefulness of collaborative filtering is the sparsity problem, which refers to a situation in which transactional or feedback data is sparse and i ...

Keywords: Recommender system, associative retrieval, collaborative filtering, sparsity problem, spreading activation



28 Research sessions: relational models and views: Unifying data and domain knowledge using virtual views

Lipyeow Lim, Haixun Wang, Min Wang

September 2007 **Proceedings of the 33rd international conference on Very large data bases VLDB '07**

Publisher: VLDB Endowment

Full text available:  pdf(264.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The database community is on a constant quest for better integration of data management and knowledge management. Recently, with the increasing use of ontology in various applications, the quest has become more concrete and urgent. However, manipulating knowledge along with relational data in DBMSs is not a trivial undertaking. In this paper, we introduce a novel, unified framework for managing data and domain knowledge. We provide the user with a virtual view that unifies the data, the domai ...



29 Research sessions: business and web services: An approach to optimize data processing in business processes

Marko Vrhovnik, Holger Schwarz, Oliver Suhre, Bernhard Mitschang, Volker Markl, Albert Maier, Tobias Kraft

September 2007 **Proceedings of the 33rd international conference on Very large data bases VLDB '07**

Publisher: VLDB Endowment

Full text available:  pdf(284.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In order to optimize their revenues and profits, an increasing number of businesses organize their business activities in terms of business processes. Typically, they automate important business tasks by orchestrating a number of applications and data stores. Obviously, the performance of a business process is directly dependent on the efficiency of data access, data processing, and data management.

In this paper, we propose a framework for the optimization of data processing in

busine ...

30 VizSEC and VizBGP: BGP eye: a new visualization tool for real-time detection and analysis of BGP anomalies 



Soon Tee Teoh, Supranamaya Ranjan, Antonio Nucci, Chen-Nee Chuah

November 2006 **Proceedings of the 3rd international workshop on Visualization for computer security VizSEC '06**

Publisher: ACM Press

Full text available:  pdf(6.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Owing to the inter-domain aspects of BGP routing, it is difficult to correlate information across multiple domains in order to analyze the root cause of the routing outages. We present *BGP Eye*, a tool for visualization-aided root-cause analysis of BGP anomalies. In contrast to previous approaches, BGP Eye performs real-time analysis of BGP anomalies through hierarchical analysis. First, BGP updates are clustered to obtain BGP events that are more representative of an anomaly. These events ...

Keywords: BGP, network security, routing, visualization

31 Précis: from unstructured keywords as queries to structured databases as answers 

Alkis Simitsis, Georgia Koutrika, Yannis Ioannidis

January 2008 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 17 Issue 1

Publisher: Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#)

Précis queries represent a novel way of accessing data, which combines ideas and techniques from the fields of databases and information retrieval. They are free-form, keyword-based, queries on top of relational databases that generate entire multi-relation databases, which are logical subsets of the original ones. A logical subset contains not only items directly related to the given query keywords but also items implicitly related to them in various ways, with the purpose of providing to th ...

Keywords: Free-from queries, Keyword search, Query processing

32 A process for building a domain ontology: an experience in developing a government budgetary ontology 

Graciela Brusa, Ma. Laura Caliusco, Omar Chiotti

December 2006 **Proceedings of the second Australasian workshop on Advances in ontologies - Volume 72 AOW '06**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(401.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

During the last years, there has been a growing concern on ontology due to its ability to explicitly describe data semantics in a common way, independently of data source characteristics, providing a schema that allows data interchanging among heterogeneous information systems and users. Several works have been aimed to improve ontology technological aspects, like representation languages and inference mechanisms, and less attention has been paid to practical results of development method app ...

Keywords: development methodology, ontology engineering

33 Domain-independent data cleaning via analysis of entity-relationship graph 

Dmitri V. Kalashnikov, Sharad Mehrotra

 June 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 2
Publisher: ACM Press


Full text available:  pdf(1.27 MB) Additional Information: [full citation](#), [appendices and supplements](#),
[abstract](#), [references](#), [index terms](#)

In this article, we address the problem of *reference disambiguation*. Specifically, we consider a situation where entities in the database are referred to using descriptions (e.g., a set of instantiated attributes). The objective of reference disambiguation is to identify the unique entity to which each description corresponds. The key difference between the approach we propose (called RelDC) and the traditional techniques is that RelDC analyzes not only object features but also inter-obje ...

Keywords: Connection strength, RelDC, data cleaning, entity resolution, graph analysis, reference disambiguation, relationship analysis

34 Access control: Managing RBAC states with transitive relations



 Chaoyi Pang, David Hansen, Anthony Maeder
 March 2007 **Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07**
Publisher: ACM Press

Full text available:  pdf(367.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we study the maintenance of role-based access control (RBAC) models in database environments using transitive closure relations. In particular, the algorithms that express and remove redundancy from a component, a RBAC state, and from conflict constraints. The transitive closure relations on a RBAC state specify the reachability among user groups, roles and from user groups to roles. These relations can assist the process of authorization and make some queries easier to answer. ...

Keywords: data integration, directed acyclic graph (DAG), distributed database, graph theory, redundant, role-based access control

35 Optimization of relational preference queries



Bernd Hafenrichter, Werner Kießling
 January 2005 **Proceedings of the 16th Australasian database conference - Volume 39 ADC '05**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(229.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design and implementation of advanced personalized database applications requires a preference-driven approach. Representing preferences as strict partial orders is a good choice in most practical cases. Therefore the efficient integration of preference querying into standard database technology is an important issue. We present a novel approach to relational preference query optimization based on algebraic transformations. A variety of new laws for preference relational algebra is presented ...

Keywords: personalization, preference, query optimization, relational algebra

36 SQL-based discovery of exact and approximate functional dependencies



 Victor Matos, Becky Grasser
 June 2004 **ACM SIGCSE Bulletin , Working group reports from ITiCSE on Innovation and technology in computer science education ITiCSE-WGR '04**, Volume 36
 Issue 4
Publisher: ACM Press

Full text available:  pdf(336.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Students in a typical database course are introduced to theoretical design from a functional dependency standpoint. Functional dependencies are rules of the form $X \rightarrow Y$, where X and Y are attributes of a relation $r(R)$. Those rules express the potential one-to-one, and many-to-one relationships among the attributes of R . Unfortunately finding the non-trivial rules $X \rightarrow Y$ from an existing arbitrary relation is a hard problem. We present an extension of the SQL-based algorithm of Bell and Brockh ...

Keywords: SQL, computer and information science education, database management, functional dependencies, languages

37 Exporting and interactively querying Web service-accessed sources: The CLIDE System 

Michalis Petropoulos, Alin Deutsch, Yannis Papakonstantinou, Yannis Katsis
November 2007 **ACM Transactions on Database Systems (TODS)**, Volume 32 Issue 4

Publisher: ACM

Full text available:  pdf(1.80 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The CLIDE System assists the owners of sources that participate in Web service-based data publishing systems to publish a restricted set of parameterized queries over the schema of their sources and package them as WSDL services. The sources may be relational databases, which naturally have a schema, or ad hoc information/application systems whereas the owner publishes a virtual schema. CLIDE allows information clients to pose queries over the published schema and utilizes prior work on answer ...

Keywords: Middleware, Web services, limited access patterns, query rewriting

38 Triggers over nested views of relational data 

 Feng Shao, Antal Novak, Jayavel Shanmugasundaram
September 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.40 MB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Current systems that publish relational data as nested (XML) views are *passive* in the sense that they can only respond to user-initiated queries over the nested views. In this article, we propose an *active* system whereby users can place triggers on (unmaterialized) nested views of relational data. In this architecture, we present scalable and efficient techniques for processing triggers over nested views by leveraging existing support for SQL triggers over flat relations in commerc ...

Keywords: XML, nested views, relational databases, triggers

39 XML and semi-structured data: Evaluation of datalog extended with an XPath predicate 

Royi Ronen, Oded Shmueli
November 2007 **Proceedings of the 9th annual ACM international workshop on Web information and data management WIDM '07**

Publisher: ACM

Full text available:  pdf(252.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XPath^L is a logical language for processing XML and relational data. The language is essentially Datalog augmented with a new type of predicate, *XPath Expression Predicate*,

which is dedicated to XPath processing. It may be used as an intermediate target language for higher level constructs within a programming language, or embedded directly within a programming language.

Two approaches for processing *XPath^L* queries are presented. The *Static ...*

Keywords: XML, XML and relational processing, datalog



40 Research sessions: XML query efficiency: BLAS: an efficient XPath processing system



Yi Chen, Susan B. Davidson, Yifeng Zheng

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available:  pdf(179.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present BLAS, a Bi-LAbeling based System, for efficiently processing complex XPath queries over XML data. BLAS uses P-labeling to process queries involving consecutive child axes, and D-labeling to process queries involving descendant axes traversal. The XML data is stored in labeled form, and indexed to optimize descendent axis traversals. Three algorithms are presented for translating complex XPath queries to SQL expressions, and two alternate query engines are provided. Experimental result ...

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IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Nayyar, K.; Nayyar, H.;
[INDICON, 2005 Annual IEEE](#)
11-13 Dec. 2005 Page(s):171 - 175
[AbstractPlus](#) | Full Text: [PDF](#)(2008 KB) [IEEE CNF](#)
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Nayyar, K.;
[India Annual Conference, 2004. Proceedings of the IEEE INDICON 2004. First](#)
20-22 Dec. 2004 Page(s):521 - 524
Digital Object Identifier 10.1109/INDICO.2004.1497810
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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Nayyar, K.; Nayyar, H.;
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Nayyar, K.;
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Digital Object Identifier 10.1109/INDICO.2004.1497810
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Byung-Won On; Koudas, N.; Dongwon Lee; Srivastava, D.;
[Data Engineering, 2007. ICDE 2007. IEEE 23rd International Conference on](#)
15-20 April 2007 Page(s):496 - 505
Digital Object Identifier 10.1109/ICDE.2007.367895
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Merlo, E.; Letarte, D.; Antoniol, G.;
[Reverse Engineering, 2006. WCRE '06. 13th Working Conference on](#)
Oct. 2006 Page(s):147 - 156
Digital Object Identifier 10.1109/WCRE.2006.33
[AbstractPlus](#) | Full Text: [PDF\(209 KB\)](#) IEEE CNF
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Changqing Zhang; Weiyi Meng; Zhougfei Zhang; Zonghuan Wu;
[Advances in Digital Libraries, 2000. ADL 2000. Proceedings. IEEE](#)

22-24 May 2000 Page(s):58 - 67

Digital Object Identifier 10.1109/ADL.2000.848370

[AbstractPlus](#) | Full Text: [PDF\(320 KB\)](#) IEEE CNF

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- ☐ 6. **Simple and efficient implementation of pattern matching in MOLA tool**
Kalnins, A.; Celms, E.; Sostaks, A.;
[Databases and Information Systems, 2006 7th International Baltic Conference](#)
3-6 July 2006 Page(s):159 - 167
Digital Object Identifier 10.1109/DBIS.2006.1678491
[AbstractPlus](#) | Full Text: [PDF\(405 KB\)](#) IEEE CNF
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Hernandez, M.; Ho, H.; Naumann, F.; Popa, L.;
[Parallel Architectures, Algorithms and Networks, 2005. ISPAN 2005. Proceedings](#)
[Symposium on](#)
7-9 Dec. 2005 Page(s):1 pp.
Digital Object Identifier 10.1109/ISPAN.2005.25
[AbstractPlus](#) | Full Text: [PDF\(74 KB\)](#) IEEE CNF
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- ☐ 8. **Leveraging standard core technologies to programmatically build Linux**
Katz, M.J.; Papadopoulos, P.M.; Bruno, G.;
[Cluster Computing, 2002. Proceedings. 2002 IEEE International Conference](#)
23-26 Sept. 2002 Page(s):47 - 53
Digital Object Identifier 10.1109/CLUSTER.2002.1137728
[AbstractPlus](#) | Full Text: [PDF\(383 KB\)](#) IEEE CNF
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- ☐ 9. **Temporal aspects of semistructured data**
Oliboni, B.; Quintarelli, E.; Tanca, L.;
[Temporal Representation and Reasoning, 2001. TIME 2001. Proceedings. European](#)
[Symposium on](#)
14-16 June 2001 Page(s):119 - 127
Digital Object Identifier 10.1109/TIME.2001.930707
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- ☐ 10. **Graph object oriented model and query language: a semi-structured approach**
Choudhury, S.; Chaki, N.; Bhattachary, S.;
[Information Technology: Coding and Computing, 2001. Proceedings. International](#)
2-4 April 2001 Page(s):685 - 689
Digital Object Identifier 10.1109/ITCC.2001.918877
[AbstractPlus](#) | Full Text: [PDF\(376 KB\)](#) IEEE CNF
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- ☐ 11. **WebView: a tool for retrieving internal structures and extracting information from documents**
Lim, S.-J.; Ng, Y.-K.;
[Database Systems for Advanced Applications, 1999. Proceedings. 6th International](#)
19-21 April 1999 Page(s):71 - 80
Digital Object Identifier 10.1109/DASFAA.1999.765738
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